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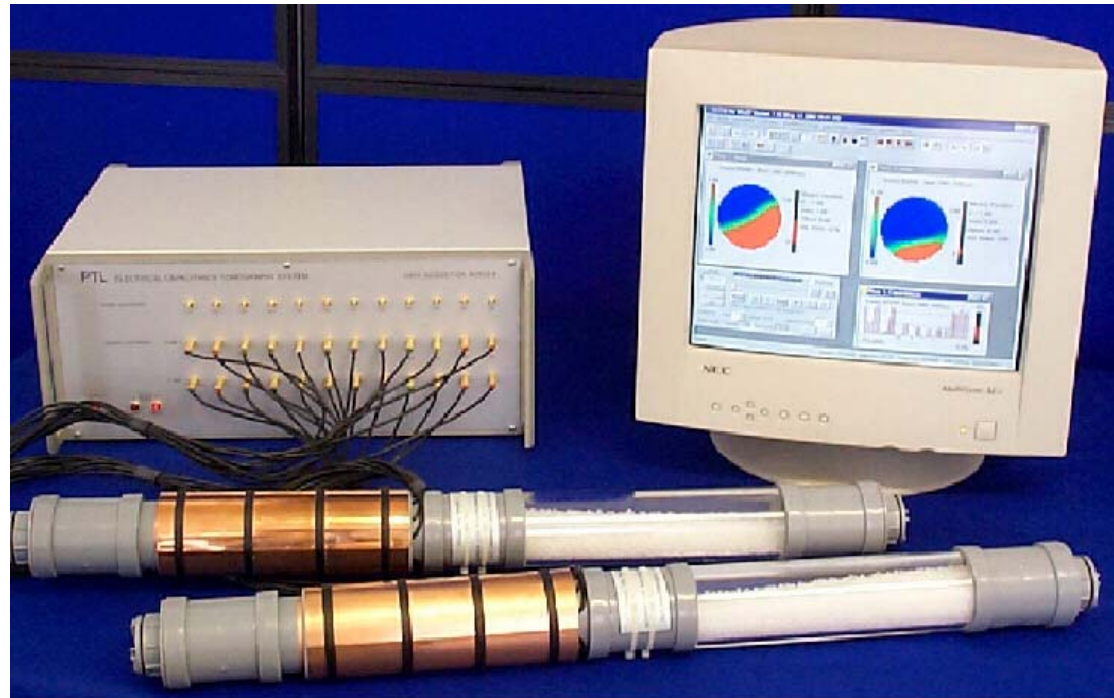
# ***Tomoflow***

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7 August, 2002

[www.tomoflow.com](http://www.tomoflow.com)

## ***Tomoflow***

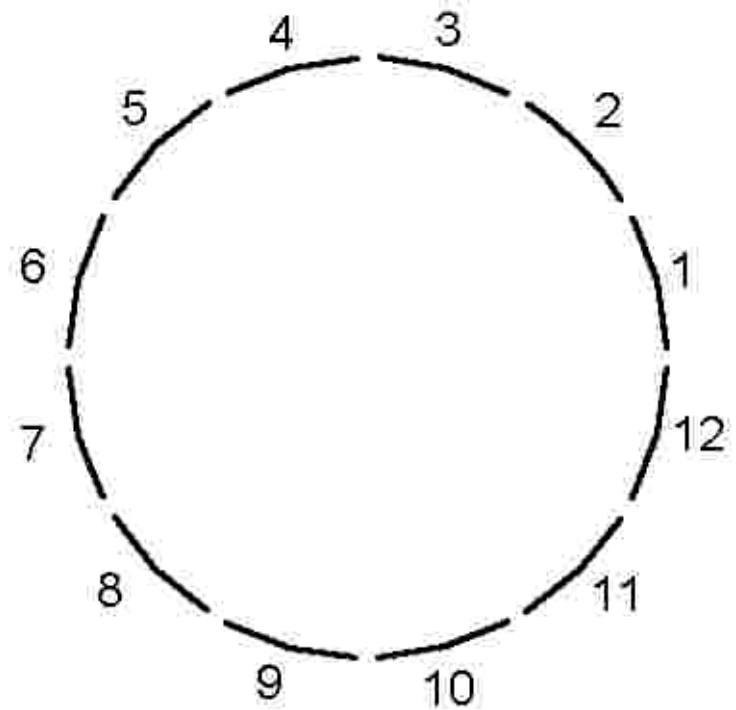


**An ECT system consists of a control computer, a capacitance measurement unit and one or more capacitance sensors. The picture shows a twin-plane ECT system.**

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**Electrical capacitance measurements are made between electrode pairs.**

**The sensor shown has 12 electrodes. This case has 66 unique electrode-pair capacitances.**

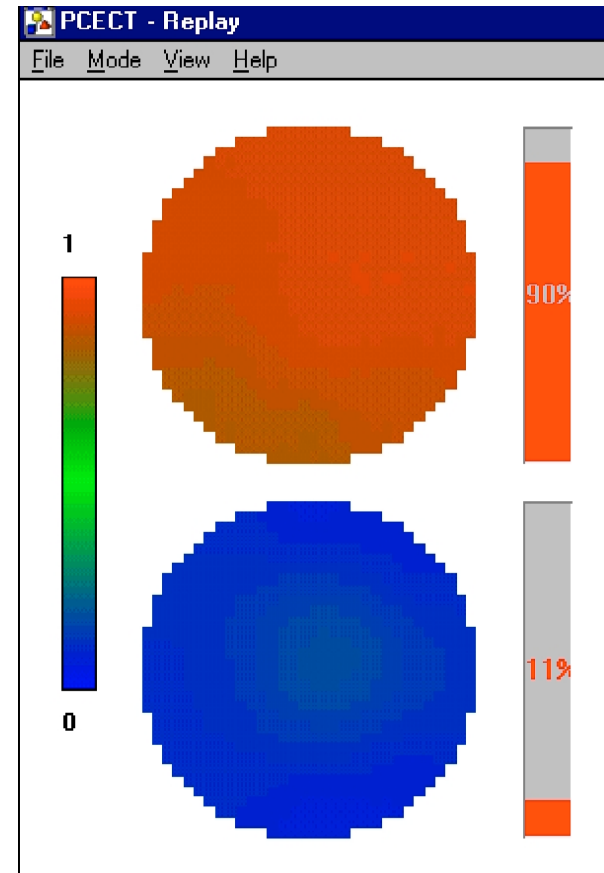




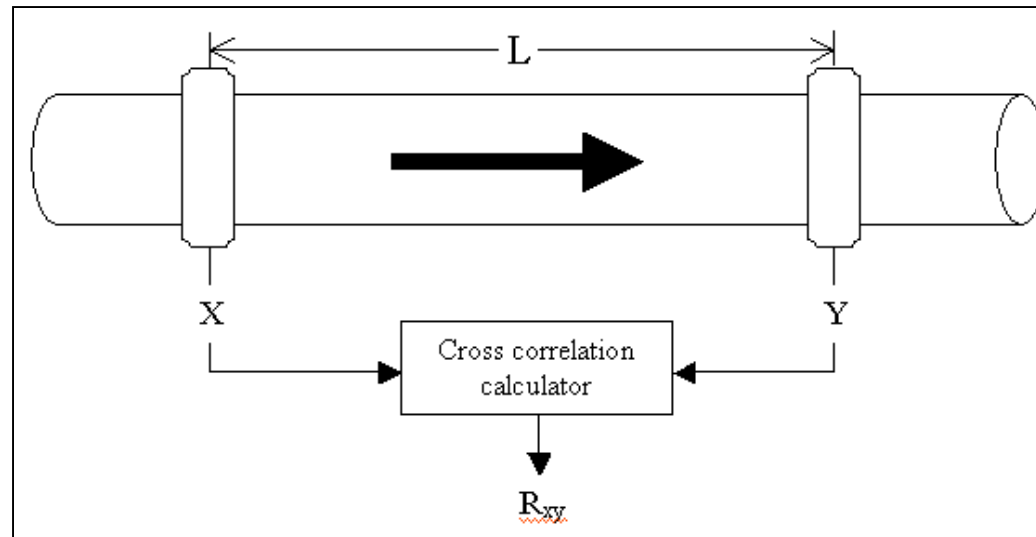
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**We show the permittivity of the mixture (which corresponds to the sand concentration) on a colour scale from blue (air) to red (sand).**

**Mixtures of air and sand will appear as intermediate colours.**



# Velocity Profile



Velocity measurements can be made by correlating sections of the images from the two planes. Velocity = length  $L$  / time delay.

# Product Portfolio

- Tomoflow Mark 1 Flow Analysis System
  - extension to existing twin-plane imaging
  - on-line images of velocity and mass flow
- Tomoflow Solids Flowmeter
  - measuring flowrates of gas and solids in pipes
  - substantial cost savings and process control
- Tomoflow Multiphase Flowmeter
  - complete, self-contained and robust